

## New Course Change Proposal Summary – Biology/Boomer

During our September 2010 retreat, the Biology Department discussed enrollment management using assessment and/or tracking data from 211-2-3, 300/400 majors core (Genetics/314, Cell/315, Evolution/316, Microbiology/331, Ecology/357, Plant Ecology/454-554), and pre-nursing coursework (e.g. 100 series, A&P/234-5-6, Microbiology/318). Two big ideas emerged from this retreat in terms of guiding the following course change proposals:

(1) **Non-Majors/Pre-Nursing:** serious enrollment, space/FTE, and preparation challenges (e.g. 20% pre-nursing “success” rate) are guiding proposals to add a C- minimum grade requirement in BI102 for both BI234 (A/P) and BI318 (Micro). Because Biology 102 is constantly full/overloaded, we also want to remove the current BI102 pre-requisite from BI103, providing more access.

Course	Current Pre-Req	Proposed New Pre-Req
BI103	BI102	none
BI234	BI102 or BI211	Minimum grade (C-) in BI102 or BI211
BI318	BI102 or BI212	Minimum grade (C-) in BI102 or BI211

(2) **Majors:** serious enrollment, space/FTE, and preparation challenges (e.g. 40% “D/drop/failure” rate in BI211) are guiding proposals to FINALLY add a Biology 211 winter trailer as a remediation effort. Using a pre-test/survey piloted the last 2 years, students will be assessed for preparation level – and, if results warrant, provided with remediation options (see below) fall term; if such students get up to speed, they can begin BI211 in winter. Because we do not have the FTE to run a full trailer (tracking data do not support the need to offer this at this time), we decided a more flexible approach to the rest of the Biology 200 series and second-year core courses (BI314-5-6) was needed to provide less-prepared students with more opportunities to make up lost time, while getting up to speed in Math. Given space limitations in third year core coursework (especially BI331/Micro), prerequisite changes were proposed with both preparation AND enrollment management in mind. With the moving of A&P/234-5-6 lectures to the new Health/Wellness Center, new space will be available for the new BI211 trailer (48 students only).

Course	Current Pre-Req	Proposed New Pre-Req
BI211	None, fall only	Add winter trailer
BI213	BI211, BI212	BI211
BI314	BI211	BI211, Math111**
BI315	BI211, BI223	BI213, BI314, CH221
BI316	BI314	BI212, BI314
BI331*	BI211-2-3, CH221-2-3	BI211-2-3, CH221-2-3, BI314
BI357*	BI213	BI211-2-3, Math111**
BI454*	botany, ecology	BI211-2-3, Math111**

*\*Recommended third-year core coursework  
 \*\*Math111 is a pre-req for CH221 – with CH221-2-3 required for ALL our major emphases.*

### *Sample Core-Only New Schedule for “Late-Starter” Student Who Lacks Preparation – Biology Only Possible With Above Pre-Req Changes*

<i>Fall – Freshman</i>	<i>Winter – Freshman</i>	<i>Spring – Freshman</i>
BI102	Biology 211	Biology 213
Math to 111 and 100-Chem	Chemistry 221 – or Math111/100-Chem	Chemistry 222 – or Math111/100-Chem
<i>Fall – Sophomore</i>	<i>Winter – Sophomore</i>	<i>Spring – Sophomore</i>
Biology 314	Biology 315, Biology 212	Biology 316
Chemistry 223 – or Chemistry 221	Chemistry 222 (if started year 2)	Chemistry 223 (if started year 2)

*Ecology, Plant Ecology, and Microbiology Core Changes Designed to Focus These Students Toward Taking These Courses in Third Year.*